

## EXHIBIT 1

**U.S. Department of Labor**  
Occupational Safety & Health Administration**Chemical Sampling Information:**  
**Sodium Metasilicate****General Description**

**Synonyms:** Silicic Acid ( $H_2SiO_3$ ) Disodium Salt; Crystamet; Disodium Metasilicate; Disodium Monosilicate; Orthosil; Metso Beads, Drymet; Sodium Metasilicate, Anhydrous; Sodium Silicate; Water Glass

**OSHA IMIS Code Number:** S245

**Chemical Abstracts Service (CAS) Registry Number:** 6834-92-0

**NIOSH, Registry of Toxic Effects (RTECS) Identification Number:** VV9275000

**Chemical Description and Physical Properties:** Usually obtained as a glass; also orthorhombic crystals. Usually prepared from sand ( $SiO_2$ ) and soda ash ( $NaCO_3$ ) by fusion. Soluble in cold water, hydrolyzed by hot water. Insoluble in alcohol, acids, salt solutions.

**molecular formula:**  $O_3Si \cdot 2Na$

**molecular weight:** 122.07

**melting point:** 1089°C

**Health Factors**

**Health Effects:** Severe skin irritation; inhalation of dusts can irritate upper respiratory tract.

**Monitoring Methods used by OSHA****Laboratory Sampling/Analytical Method:**

- note: Call SLTC for instructions.

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Occupational Safety & Health Administration  
200 Constitution Avenue, NW  
Washington, DC 20210

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